

B5

12

**EUROPEAN PATENT APPLICATION**

21 Application number: 87116099.0

31 Int. Cl. 4: **G02F 1/133 , G02F 1/137**

22 Date of filing: 14.09.82

30 Priority: 16.09.81 US 302780

43 Date of publication of application:  
01.06.88 Bulletin 88/22

60 Publication number of the earlier application in  
accordance with Art.76 EPC: 0 088 126

84 Designated Contracting States:  
AT BE CH DE FR GB LI LU NL SE

88 Date of deferred publication of the search report:  
25.01.89 Bulletin 89/04

71 Applicant: **MANCHESTER R & D PARTNERSHIP**  
**2731 Emerson Drive**  
**Pepper Pike Ohio 44124(US)**

72 Inventor: **Ferguson, James Lee**  
**23 Hawthorne Drive**  
**Atherton California 94025(US)**

74 Representative: **Crisp, David Norman et al**  
**D. YOUNG & CO. 10 Staple Inn**  
**London, WC1V 7RD(GB)**

54 Encapsulated liquid crystal and method.

57 Briefly, according to one aspect of the invention, liquid crystal material, and especially nematic material, is encapsulated; according to another aspect the encapsulated liquid crystal material is used in liquid crystal devices, such as relatively large size visual display devices; and according to further aspects there are provided methods for encapsulating liquid crystal material and for making a liquid crystal device using such encapsulated liquid crystal material.



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

EP 87 11 6099

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	FR-A-2 293 722 (LE SECRETAIRE D'ETAT) * Page 1, lines 3-17; page 2, lines 2-8; page 3, lines 1-8,29-35; page 4, lines 1-13 *	1-4,7,9 ,14-19, 23	G 02 F 1/133 G 02 F 1/137
A	---	21,24	
A	FR-A-2 123 338 (SIEMENS) * Page 2, line 35 - page 4, line 13 *	1,3,4, 18,22	
A	FR-A-2 139 537 (MARCONI) * Page 2, line 23 - page 3, line 10; page 4, lines 27,28; page 5, line 39 - page 6, line 7 *	1,3-5, 18	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			G 02 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08-11-1988	Examiner CONRAD V.HEYDENDORFF K.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			